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SOURCE Stanki i Instrument, No 10, p 3

DEFINE TERMS USED IN CLASSIFICATION OF SOVIET MACHINE TOOLS

All Soviet machine tools are divided, according to the degree of universality, into universal, specialized, and special.

Universal machine tools perform a variety of operations on many types of parts.

Specialized machine tools machine parts of one type designation (for example, crankshafts, pipes and couplings, bearings, or shafts), but of different sizes.

Special machine tools machine one specific part.

Machine tools are divided, according to weight, into the following categories: (1) machine tools up to 10 tons, and (2) heavy machine tools more than 10 tons.

Heavy machine tools are in turn subdivided into three groups:

1. Large (krupnyy) machine tools, from 10 to 30 tons in weight, with the exception of internal grinding, honing, and gear-processing machines, for which the weight limit of a large machine tool is set at 20 tons.
2. Heavy (tyazhelyy) machine tools, from 30 to 100 tons in weight, with the exception of internal grinding, honing, and gear-processing machines, which are included in this group if they weigh from 20 to 60 tons.
3. Extra heavy (osobo tyazhelyy) or unique (unikal'nyy) machine tools, more than 100 tons in weight, with the exception of internal grinding, honing, and gear-processing machines, which are included in this group if they weigh more than 60 tons.

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All machine tools are divided, according to accuracy of operation, into two categories: machine tools of normal accuracy and machine tools of high accuracy.

Machine tools of high accuracy are in turn subdivided into three groups:

1. Machine tools of increased accuracy, which are based on universal machine tools, but their manufacture requires greater accuracy and the use of selective assembly methods for certain elements of the machine tool.
2. Machine tools of especially high accuracy, which are strictly precision machine tools. The high accuracy of their operation is assured by high accuracy of their manufacture, by special design of their individual elements, and by using these machine tools under special operating conditions.
3. Special master-type machine tools for the manufacture of especially accurate parts for high-accuracy machine tools.

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